CLAIMS

What is claimed is:

- An interface, comprising:
 an interface area located responsive to a natural motion by a user and, comprising:
 a graphic defining the interface area; and
 controls located in the interface area and accessible via the natural motion.
- 2. An interface as recited in claim 1, wherein the natural motion is a curve associated with movement of a hand of the user when an elbow of the user is pivoted.
- 3. An interface as recited in claim 2, wherein a location responsive to the natural motion of the user hand is defined by the natural motion passing through a substantial center area of a display area.
- 4. An interface as recited in claim 1, wherein the natural motion is a curve associated with movement of a hand of the user when an elbow of the user is pivoted and one of a wrist of the user is rotated and fingers of the user are moved.
- 5. An interface as recited in claim 1, wherein an interface location responsive to the natural motion of the user is a lower corner of a display area.
- 6. An interface as recited in claim 1, wherein the graphic is a shape corresponding to an arc shaped curve and the controls are positioned in accordance with the curve.
- 7. An interface as recited in claim 6, wherein a radius of the arc shaped curve is at least a radius of a menu of one of the controls.
- 8. An interface as recited in claim 6, wherein a control closest to a display area is positioned along the curve at least a radius of a menu of the control.
- 9. An interface as recited in claim 1, wherein a menu associated with one of the controls has a layout responsive to the curve.

- 10. An interface as recited in claim 1, wherein a marking menu associated with one of the controls has a layout where a downward stroke brings up additional tool palettes and/or dialogs.
- 11. An interface as recited in claim 1, wherein the interface is located in a lower left corner of a display area and the controls of the interface are arranged as one of a convex arc across the corner, a concave arc across the corner, a line across the corner, an array in the corner, a convex corner across the corner, a convex arc with a linear portion across the corner, a sectioned pie in the corner and extending across the display area, and a rotatable circle intersecting both sides of the corner.

12. A graphical user interface, comprising:

an interface having an interface arc shape, located in corner of a display area, having graphics for controls arranged along the interface arc and having control hit zones each with a zone shape responsive to an approach arc defined by a dominant motion arc of a motion of a user with the graphics of the controls being located responsive to one-shot function or menu pop-up function with a pop-up menu radius.

- 13. An interface as recited in claim 12, wherein the zone shape comprises one of a wedge, a curved sided triangle and a curved sided trapezoid.
- 14. An interface as recited in claim 12, wherein the zones have non-coincident, dominant arc approach paths.
- 15. An graphical user interface for a digitizer based drawing application, comprising: a semicircular graphic located in a corner of a display area of the drawing based application; and

controls located essentially in an arc in the graphic, said controls comprising:

a tool control located adjacent the minimize control and providing a menu for selecting a drawing tool of the application; and

a color control located adjacent the undo control and providing a menu for selecting paint color applied by a drawing tool of the application.

16. An interface as recited in claim 15, wherein said controls further comprise: a minimize control located on a side edge of the graphic and providing a minimize function for the interface;

a page/file control located adjacent a bottom edge of the graphic and proving a page change function for drawing pages of the application;

an edit control located adjacent to the page control and providing an undo function for the application; and

a tool type control located between the tool control and the color control and providing a menu for selection a tool type of the application

- 17. An interface as recited in claim 16, wherein the graphic comprises a semicircular band.
- 18. An interface as recited in claim 16, wherein pop-up menus pop-up in association with the selected control and at a distance from side and bottom edges of the graphic to allow all menu commands to be displayed.
- 19. An graphical user interface for a tablet personal computer based drawing application using a stylus, comprising:

a semicircular graphic located in a corner of a display area of the drawing based application responsive to a natural motion by a user wherein the natural motion is a curve associated with movement of a hand of the user when an elbow of the user is pivoted; and

controls located essentially in an arc in the graphic and activated by the stylus, said controls comprising:

a minimize control located on a side edge of the graphic and providing a minimize function for the interface;

a page control located adjacent a bottom edge of the graphic and proving a page change function for drawing pages of the application;

an undo control located adjacent to the page control and providing an undo function for the application;

a tool control located adjacent the minimize control and providing a menu for selecting a tool of the application;

a color control located adjacent the undo control and providing a menu for

selecting paint color applied by a tool of the application; and

a tool type control located between the tool control and the color control and providing a menu for selection a tool type of the application,

wherein a radius of the arc shaped curve is at least a radius of a menu of one of the controls.

wherein a control closest to a display area is positioned along the curve at least a radius of a menu of the control, and

wherein a marking menu associated with one of the controls has a layout where a downward stroke brings up additional tool palettes and/or dialogs.

20. A method, comprising:

mapping controls of an graphical user interface in an arc shape at a location responsive to an approach arc and with a radius responsive to an underlying menu activatable via one of the controls; and

allowing a user to activate the controls.

- 21. A method as recited in claim 20, wherein the location comprises a display area corner.
- 22. A method as recited in claim 20, wherein the corner is lower right corner for a left-handed person and a lower left corner for a right-handed person
- 23. A method as recited in claim 20, wherein the mapping maps controls on the arc responsive to a function of the controls.
- 24. A method as recited in claim 20, further comprising minimizing the interface responsive to activation of a minimize control.
 - 25. A method as recited in claim 20, wherein the allowing comprises: displaying a menu upon a touch input and allowing a user to select an item of the menu; displaying a menu and performing an interaction upon a dwell input; and performing a function upon a stroke input.

- 26. A method as recited in claim 25, wherein if a user is inking from a drawing canvas and the inking crosses into the menu, inking still occurs on the canvas.
- A computer readable storage for controlling a computer by mapping controls of a graphical user interface in an arc shape at a location responsive to an approach arc and with a radius responsive to an underlying menu activatable via one of the controls and allowing a user to activate the controls.
 - 28 An apparatus, comprising:
 - a display; and

a processor positioning a graphical user interface of multiple controls in a lower right corner of the display, the interface having an interface arc shape and positioning the controls on the interface arc at positions responsive to a natural motion arc of a user when moving a hand from a center of the display toward the corner.

- An apparatus as recited in claim 28, wherein the processor positions the controls responsive to a function of the controls.
- An apparatus as recited in claim 28, further comprising a stylus-based input system coupled to the processor and the display, and activating the controls responsive to a tap of a stylus on one of the controls, a dwell of the stylus over one of the control and a stroke of the stylus on one of the controls.